

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	589	717/124.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/26 11:39
L2	9	717/124.ccls. and (child near5 process)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/26 11:40
L3	15	717/124.ccls. and (child near5 (thread or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/26 11:40
L4	15	717/124.ccls. and (child near5 (thread or task or process))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/26 11:49
L5	16	717/124.ccls. and (child near5 (thread or task or process)) and stor\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 11:51
L6	1	I5 not I4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 11:49
L7	1	717/124.ccls. and (child near5 (thread or task or process)) and stor\$3 and ((defined or predefined or identified or identifiable) adj event)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 11:54
L8	1	717/124.ccls. and (child near5 (thread or task or process)) and stor\$3 and ((defined or predefined or identified or identifiable) adj event) and retriev\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 11:57
L9	34	(child near5 (thread or task or process)) and stor\$3 and ((defined or predefined or identified or identifiable) adj event) and retriev\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 11:57

L10	32	(child near5 (thread or task or process)) and stor\$3 and ((defined or predefined or identified or identifiable) adj event) and retriev\$3 and (debug\$4 or trace or tracing or monitor\$3 or profil\$3 or test\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:08
L11	704	(restart\$3 or reinitiating or repeat\$3 or resum\$3) and (debug\$4 or trace or tracing or monitor\$3 or profil\$3 or test\$3) and (child adj (process or task or thread)) and (id or identifier or description)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:10
L12	64	(restart\$3 or reinitiating or repeat\$3 or resum\$3) near3 (debug\$4 or trace or tracing or monitor\$3 or profil\$3 or test\$3) and (child adj (process or task or thread)) and (id or identifier or description)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:11
L13	13	717/???..ccls. and (restart\$3 or reinitiating or repeat\$3 or resum\$3) near3 (debug\$4 or trace or tracing or monitor\$3 or profil\$3 or test\$3) and (child adj (process or task or thread)) and (id or identifier or description)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:12
L14	13	717/???..ccls. and (restart\$3 or reinitiating or repeat\$3 or resum\$3) near3 (debug\$4 or trace or tracing or traced or monitor\$3 or profil\$3 or test\$3) and (child adj (process or task or thread)) and (id or identifier or description) and (stor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:13
L15	0	717/???..ccls. and (restart\$3 or reinitiating or repeat\$3 or resum\$3) near3 (debug\$4 or trace or tracing or traced or monitor\$3 or profil\$3 or test\$3) and (child adj (process or task or thread)) and (id or identifier or description) and (stor\$3) and retriv\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/26 12:12
S1	2	"6240529".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/19 15:15

S2	6	("6240529" "5560009" "6412106").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/19 15:15
S3	195	717/124.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:03
S4	49	717/124.ccls. and ((break adj point) or breakpoint or (check adj point) or checkpoint)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 14:38
S5	25	717/124.ccls. and ((break adj point) or breakpoint or (check adj point) or checkpoint)and (interactive or gui)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:00
S6	347	debug\$4 and (save near3 state) and (stop or halt or suspend or resume)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:01
S7	626	debug\$4 and ((save or store or retrieve)near3 state) and (stop or halt or suspend or resume)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:02
S8	31	(debug\$4 and (save near3 state) and (stop or halt or suspend or resume)) and (rollback or (roll adj back))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:21
S9	64	(debug\$4 and ((save or store or retrieve)near3 state) and (stop or halt or suspend or resume)) and 717/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:53
S10	363	debug\$4 and ((resume or retrieve or reinitialize) near3 (state or context or image))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:58
S11	37	(debug\$4 and ((resume or retrieve or reinitialize) near3 (state or context or image))) and 717/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/15 16:58

S12	21	(process adj descriptor) and (data near3 descriptor) and instance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 07:15
S13	12	"I21" and debug\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 06:56
S14	6	((process adj descriptor) and (data near3 descriptor) and instance) and debug\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 06:59
S15	21	((process adj descriptor) and (data near3 descriptor) and instance) and block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 06:59
S16	26	(process adj descriptor) and data and instance and object and block	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 07:46
S17	183	(file adj descriptor) and data and instance and object and block and process	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 07:47
S18	19	((file adj descriptor) and data and instance and object and block and process) and 717/???ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 08:04
S19	46	"5590330" "5655072" "5870607" "6026362" "6240529" "6412106"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 08:05
S20	12	("5590330" "5655072" "5870607" "6026362" "6240529" "6412106"). pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/01/27 08:06
S21	1648	(debug\$4 or test\$3 or benchmark\$3) adj (processes or multiprocesses or multi-processes or (multi adj processes) or threaded or multi-threaded or (multi adj threaded))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/07/22 08:48

S22	3	(debug\$4 or test\$3 or benchmark\$3) adj (processes or multiprocesses or multi-processes or (multi adj processes) or threaded or multi-threaded or (multi adj threaded)) and checkpoint\$3 and breakpoint\$3 and state	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/07/22 09:22
S23	721	(debug\$4 or test\$3 or benchmark\$3) and (inter-process or (inter adj process)) adj communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:29
S24	8	(debug\$4 or test\$3 or benchmark\$3) and (inter-process\$3 or (inter adj process\$3)) adj communicat\$3 and checkpoint\$3 and breakpoint\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:31
S25	8	(debug\$4 or test\$3 or benchmark\$3) and (inter-process or (inter adj process)) adj communication and checkpoint\$3 and breakpoint	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:40
S26	8510	(debug\$4 or test\$3 or benchmark\$3) and 709/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:41
S27	4054	(debug\$4 or test\$3 or benchmark\$3) and 709/???.ccls. and state and event and (stor\$3 or retriev\$3 or sav\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:45
S28	172	(debug\$4 or test\$3 or benchmark\$3) and 709/???.ccls. and state and event and (stor\$3 or retriev\$3 or sav\$3) and checkpoint	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 09:46
S29	61	(debug\$4 or test\$3 or benchmark\$3) and 709/???.ccls. and state and event and (stor\$3 or retriev\$3 or sav\$3) and checkpoint and descriptor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:18
S30	2	"6240529".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:22
S31	5	("5124989" "5428618" "5794046" "5867644" "5978584").PN.	USPAT	OR	ON	2003/07/22 10:19

S32	0	"6240529".URPN.	USPAT	OR	ON	2003/07/22 10:22
S33	26	debug\$4 near3 process and state and event and checkpoint\$3 and descriptor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:25
S34	12	debug\$4 adj process and state and event and checkpoint\$3 and descriptor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:24
S35	32	debug\$4 and java and state and event and checkpoint\$3 and descriptor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:25
S36	51	(debug\$4 near3 process and state and event and checkpoint\$3 and descriptor) or (debug\$4 and java and state and event and checkpoint\$3 and descriptor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:26
S37	7	(debug\$4 near3 process and state and event and checkpoint\$3 and descriptor) and (debug\$4 and java and state and event and checkpoint\$3 and descriptor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:32
S38	44	((debug\$4 near3 process and state and event and checkpoint\$3 and descriptor) or (debug\$4 and java and state and event and checkpoint\$3 and descriptor)) not ((debug\$4 near3 process and state and event and checkpoint\$3 and descriptor) and (debug\$4 and java and state and event and checkpoint\$3 and descriptor))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:44
S39	205	automatic\$4 near5 ((retriev\$3 or read\$3) adj state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:45
S40	205	(automatic\$4 or programatically) near5 ((retriev\$3 or read\$3) adj state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:55
S41	0	(automatic\$4 or programatically) near5 ((retriev\$3 or read\$3) adj state) and checkpoint\$3 and breakpoint\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:47

S42	91	(automatic\$4 or programatically) near5 ((retriev\$3 or read\$3) adj state) and (checkpoint\$3 or breakpoint\$3 or trac\$3 or debug\$4 or test\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:50
S43	1	(automatic\$4 or programatically) near5 ((retriev\$3 or read\$3) adj state) and java	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:57
S44	3	(automatic\$4 or programatically) near5 (restor\$3 adj state) and java	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:58
S45	593	(automatic\$4 or programatically) near5 (restor\$5 near3 state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 10:59
S46	73	(automatic\$4 or programatically) near5 (restor\$3 adj state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 11:04
S47	133	717/124.ccls. and (automatic\$4 or programatic\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 11:15
S48	0	717/124.ccls. and (automatic\$4 or programatic\$4) and restor5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 11:14
S49	98	717/124.ccls. and (automatic\$4 or programatic\$4) and state	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 12:20
S50	13	("5021997" "5059127" "5206582" "5357452" "5359546" "5500941" "5502812" "5513315" "5542043" "5634098" "5751941" "5754760" "5758062").PN.	USPAT	OR	ON	2003/07/22 12:01
S51	12	"6002869".URPN.	USPAT	OR	ON	2003/07/22 12:08

S52	14	717/127.ccls. and (automatic\$4 or programatic\$4) and (retriev\$3 or read\$3 or restor\$5) near3 (state or context)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/07/22 12:22
S53	13	"5628017".URPN.	USPAT	OR	ON	2003/07/22 12:35
S54	0	checkpoint\$3 near5 brekpoint\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:01
S55	1	checkpoint\$3 near5 breakpoint\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:04
S56	0	check-point\$3 near5 break-point\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:06
S57	124	repeat\$4 near5 breakpoint\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:27
S58	124	(repeat\$4 or reinitiat\$3) near5 (breakpoint\$3 or degub\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:27
S59	0	((repeat\$4 or reinitiat\$3) near5 (breakpoint\$3 or degub\$4)) not (repeat\$4 near5 breakpoint\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:28
S60	2	"6240529".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:51
S61	5	("5124989" "5428618" "5794046" "5867644" "5978584").PN.	USPAT	OR	ON	2003/10/14 09:28
S62	14	"5428618".URPN.	USPAT	OR	ON	2003/10/14 09:39
S63	14	"5428618".URPN.	USPAT	OR	ON	2003/10/14 09:49

S64	2	"6031991".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/14 09:51
S65	4	"6031991".URPN.	USPAT	OR	ON	2003/10/14 09:51
S66	7	("4852092" "4912707" "5124989" "5170464" "5321698" "5410685" "5428618").PN.	USPAT	OR	ON	2003/10/14 09:54
S67	4	"6031991".URPN.	USPAT	OR	ON	2003/10/14 10:25
S68	14230	(debug\$4 or test\$3) near3 (parallel or multi-process\$3 or multiprocess\$3 or concurrent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:05
S69	31	(debug\$4 or test\$3) near3 (parallel or multi-process\$3 or multiprocess\$3 or concurrent) same (break or watch or watchpoint or watch-point or breakpoint or break-point) and (parent or child or subclass or derived or inherit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:22
S70	105	(debug\$4 or test\$3 or analysis or analyz\$3 or diagnosis or diagnos\$3) near3 (parallel or multi-process\$3 or multiprocess\$3 or concurrent) same (break or watch or watchpoint or watch-point or breakpoint or break-point or interrupt\$3) and (parent or child or subclass or derived or inherit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:23
S71	74	((debug\$4 or test\$3 or analysis or analyz\$3 or diagnosis or diagnos\$3) near3 (parallel or multi-process\$3 or multiprocess\$3 or concurrent) same (break or watch or watchpoint or watch-point or breakpoint or break-point or interrupt\$3) and (parent or child or subclass or derived or inherit\$4)) not ((debug\$4 or test\$3) near3 (parallel or multi-process\$3 or multiprocess\$3 or concurrent) same (break or watch or watchpoint or watch-point or breakpoint or break-point) and (parent or child or subclass or derived or inherit\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:36

S72	2	"6240529".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:39
S73	1	"6240529".URPN.	USPAT	OR	OFF	2004/08/12 08:36
S74	171	717/129.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/12 08:39


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 Terms used **stored process state event debugging retrieving**

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [A relational approach to monitoring complex systems](#)

Richard Snodgrass

 May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2

 Full text available: [pdf\(3.42 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...

3 [The FINITE STRING Newsletter: Abstracts of current literature](#)

Computational Linguistics Staff

 January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

 Full text available: [pdf\(6.15 MB\)](#)


 Additional Information: [full citation](#)

Publisher Site

4 Debugging concurrent programs

Charles E. McDowell, David P. Helmbold

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4


Full text available:  pdf(2.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be ...

5 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4


Full text available:  pdf(6.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

6 Debugging standard ML without reverse engineering

Andrew P. Tolmach, Andrew W. Appel

May 1990 **Proceedings of the 1990 ACM conference on LISP and functional programming**


Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have built a novel and efficient replay debugger for our Standard ML compiler. Debugging facilities are provided by instrumenting the user's source code; this approach, made feasible by ML's safety property, is machine-independent and back-end independent. Replay is practical because ML is normally used functionally, and our compiler uses continuation-passing style; thus most of the program's state can be checkpointed quickly and compactly using call-with-current-continuation. Together, ...

7 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Full text available:  pdf(2.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has


been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional databa ...

Keywords: active databases, events, object-oriented databases, relational databases

8 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available:  [pdf\(8.79 MB\)](#)


Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

9 Testing and debugging: Using Hy⁺ for network management and distributed debugging

Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available:  [pdf\(1.68 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The Hy⁺ visualization system and GraphLog query language provide these facilities. They support not ...

10 Knowledge-based document retrieval in office environments: the Kabiria system

Augusto Celentano, Maria Grazia Fugini, Silvano Pozzi

July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3

Full text available:  [pdf\(2.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of d ...

Keywords: browser, class, hypertext, instance, knowledge base, link, object orientation, user interface

11 Restoring consistent global states of distributed computations

Arthur P. Goldberg, Ajei Gopal, Andy Lowry, Rob Strom


December 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM/ONR workshop on Parallel and distributed debugging**, Volume 26 Issue 12

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 APPL/A: a language for software process programming

Stanley M. Sutton, Dennis Heimbigner, Leon J. Osterweil

July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4 Issue 3

Full text available:  pdf(4.89 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Software process programming is the coding of software processes in executable programming languages. Process programming offers many potential benefits, but their realization has been hampered by a lack of experience in the design and use of process programming languages. APPL/A is a prototype software process programming language developed to help gain this experience. It is intended for the coding of programs to represent and support software processes including process, product, and p ...

Keywords: consistency management, multiparadigm programming languages, software process programming, transaction management

13 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1


Full text available:  pdf(7.97 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

14 Modeling concurrency in parallel debugging

W. Hseush, G. E. Kaiser


February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming**, Volume 25 Issue 3

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We propose a debugging language, Data Path Expressions (DPEs), for modeling the behavior of parallel programs. The debugging paradigm is for the programmer to describe the expected program behavior and for the debugger to compare the actual program behavior during execution to detect program errors. We classify DPEs into five subclasses according to syntactic criteria, and characterize their semantics in terms of a hierarchy of extended Petri Net models. The characterizatio ...

15 Debuggable concurrency extensions for standard ML


Andrew P. Tolmach, Andrew W. Appel

December 1991 **ACM SIGPLAN Notices , Proceedings of the 1991 ACM/ONR workshop on Parallel and distributed debugging**, Volume 26 Issue 12Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16 Coca: an automated debugger for C**

Mireille Ducassé

May 1999 **Proceedings of the 21st international conference on Software engineering**Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** automated debugging, debugging language, debugging tool, program behavior understanding, trace query mechanism**17 Hyperform: a hypermedia system development environment**


Uffe K. Wiil, John J. Leggett

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1Full text available:  [pdf\(362.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Development of hypermedia systems is a complex matter. The current trend toward open, extensible, and distributed multiuser hypermedia systems adds additional complexity to the development process. As a means of reducing this complexity, there has been an increasing interest in hyperbase management systems that allow hypermedia system developers to abstract from the intricacies and complexity of the hyperbase layer and fully attend to application and user interface issues. Design, developme ...

Keywords: advanced hypermedia system architecture, extensible hyperbase management system, object-oriented extension language**18 An annotated bibliography of interactive program steering**

Weiming Gu, Jeffrey Vetter, Karsten Schwan


September 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 9Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**19 Experiences with building distributed debuggers**

Michael S. Meier, Kevan L. Miller, Donald P. Pazel, Josyula R. Rao, James R. Russell

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

20 [Techniques for debugging parallel programs with flowback analysis](#)





Jong-Deok Choi, Barton P. Miller, Robert H. B. Netzer

October 1991 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 13 Issue 4Full text available:  [pdf\(2.73 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** debugging, flowback analysis, incremental tracing, parallel program, program dependence graph, semantic analysis

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A Recursive Session Token Protocol for use in Computer Forensics and TCP Traceback

B Carrier, C Shields - INFOCOM, 2002 - ieeexplore.ieee.org

... third column contains the times for a SV type request and **saving** the data to ... in Section III-B, a SV type request saves **state** data for the **process** tree that ...

Cited by 9 - [Web Search](#) - computer-tutorials.org - cerias.purdue.edu - it.iitb.ac.in - all 14 versions »

Process/Thread Migration and Checkpointing in Heterogeneous Distributed Systems

H Jiang, V Chaudhary - In Proceedings of the 37th Hawaii International Conference ..., 2004 - ieeexplore.ieee.org

... Checkpointing concerns **saving** the compu- tation **state** to ... instead of the encoding/decoding **process** at run ... Therefore, the computation **state** physically consists ...

Cited by 4 - [Web Search](#) - doi.ieeeecomputersociety.org - csdl.computer.org - pdci.wayne.edu - all 6 versions »

In-Service Monitoring for Cell Loss Quality of Service Violations in ATM Networks

AMA Process - IEEE/ACM TRANSACTIONS ON NETWORKING, 1996 - ieeexplore.ieee.org

... For models that do **not** possess long-range dependence, this ... A) () Geom/GeomJI/K queueing model and the N-**state** Markovian arrival **process** are considered ...

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Process Structuring

JJ Horning, B Randell - ACM Computing Surveys, 1973 - portal.acm.org

... **state** variable sets by retaining the same action function (ie, the ex- tended **process** does **not** change variables that were **not** in its ongmal **state** variable set ...

Cited by 34 - [Web Search](#) - ppgia.pucpr.br - sau.edu - cs.ncl.ac.uk - all 8 versions »

Data Conversion for Process/Thread Migration and Checkpointing

H Jiang, V Chaudhary, JP Walters - Proc. of Int'l Conf. on Parallel Processing, 2003 - ieeexplore.ieee.org

... Check- pointing concerns **saving** the computation **state** to ... In **process**/thread stacks, each function's ... Eventually, all **state** related con- tents, including stacks ...

Cited by 3 - [Web Search](#) - doi.ieeeecomputersociety.org - cs.wayne.edu - ieeexplore.ieee.org

PRIME---toward process-integrated modeling environments: 1

K Pohl, K Weidenhaupt, R Doemges, P Haumer, M ... - ACM Transactions on Software Engineering and Methodology, 1999 - portal.acm.org

... information about the current performance **state** including unforeseeable events such as a **process** deviation has ... far **not** trivial, eg, deducing that **saving** a file ...

Cited by 14 - [Web Search](#) - portal.acm.org - www-i5.informatik.rwth-aachen.de

Replaying Distributed Programs without Message LoggingRHB Netzer, Y Xu - HPDC, 1997 - ieeexplore.ieee.org... Checkpointing is the periodic **saving** by each **process** of ... 1 is the only strongly consistent **state** passing through ... maintain two vectors in each **process** (of length ...Cited by 11 - [Web Search](#) - ieeexplore.ieee.org - portal.acm.org - portal.acm.orgEffects of saving and spending patterns on holding time distributionN Ding, N Xi, Y Wang - The European Physical Journal B- Condensed Matter, 2003 - dx.doi.org... distribution of money is found when **saving** factor is set ... hand to hand in the exchange **process**, in which ... the economy has achieved an equilibrium **state**, there is ...Cited by 2 - [Web Search](#) - springerlink.com - edpsciences.org - arxiv.org - [all 5 versions »](#)Shade: A Fast Instruction-Set Simulator for Execution ProfilingRF Cmelik, D Keppel - SIGMETRICS, 1994 - portal.acm.org... If there is **not** enough space, the transla- tion ... are lazily loaded from the virtual **state** structure, then ... **traced** and what information should be collected for ...Cited by 403 - [Web Search](#) - nongnu.org - xsim.com - sun.com - [all 16 versions »](#)Planning and scheduling in the process industryJ Kallrath - OR Spectrum, 2002 - springerlink.com... Product swaps: With the objective of **saving** transportation and ... of time and the newly introduced **state**-task network (STN) representation of the **process**. ...Cited by 12 - [Web Search](#)

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L Randell - robotics.lth.se

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Discrete-Event Simulation **Process** 181 ... A rapid **response** to market demands is the key ...

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[PS] Reactor, a Software Pattern for Building, Simulating, and Debugging Distributed Systems

R Girimaji - ittc.ku.edu

... Proactor pattern can be hard to **debug** since the ... scale distributed simulations as
a single **process** on a ... Registering objects as **event** handlers allows **state** to be ...

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Elastic servers in CORDS

GS Goldszmidt - Proceedings of the 1992 conference of the Centre for ..., 1992 - portal.acm.org

... The Repository allows storing and **retrieving** of DPs from ... The DPs can be **stored** at
server startup (boot ... to develop, manage and **debug** distributed applications ...

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Distributed Intelligent Management of Active Networks

G Di Fatta, S Gaglio, GL Presti, GL Re, I ... - A. Cappelli, F. Turini, AI* IA, 2003 - springerlink.com

... system with the further capability of **retrieving** new knowledge ... to monitor and to
debug distributed network ... Entity using the previously **stored** information tries ...

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Application Program Interface Specification of Appia

H Miranda, A Pinto, L Rodrigues - 2001 - appia.di.fc.ul.pt

... instances per protocol/protocol set in a Appia **process**. ... data buffer where the header
is **stored** or can ... sequence of actions to be performed, **retrieving** the data ...

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INFORMATION AGENTS IN PROCESS AUTOMATION

M Fajt - automationit.hut.fi

... Figure 4.5 - Ontology **retrieving** from an ontology repository ... It is common in **process**
automation that product ... Results from these analyses are **stored** in databases ...

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CSIM User's Guide for use with CSIM Revision 16

H Schwetman - Microelectronics and Computer Technology Corporation, Texas, 1992 - progettoatena.it

... and how to compile, execute and **debug** CSIM programs. ... **Retrieving** Informations and Data from Storages These functions each ... pointer to this **event** is **stored** in arr ...

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[PS] Searching and Retrieving in Content-based Repositories of Formal Mathematical Knowledge

F Guidi, MA Zamboni - cs.unibo.it

... for storing, cataloguing, publishing, **retrieving** and processing ... exchanged between computer programs, **stored** in databases, ... should be easy to handle and **process**. ...

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State of the art

E Niemelae, T Korpipaeae, A Tuominen - deec.fe.up.pt

... file servers and database servers with **stored** procedures are 2 ... steps (roles played by each step of the **process**). WPMSs are usually **state-table** based or database ...

Web Search - inf.vtt.fi - vtt.fi

An artificial intelligence approach to network fault management

DW Gurer, I Khan, R Ogier, R Keffer - Proceedings of the International Joint Conference on ..., 1995 -
sce.carleton.ca

... a part, or for a programmer to **debug** some software. ... The first step is **retrieving** cases that best match the ... the success of the analysis should be **stored** into a ...

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